5 A PROCESS FOR PREPARING AN OLEFIN OXIDE, A METHOD OF USING THE OLEFIN OXIDE AND A CATALYST COMPOSITION

ABSTRACT

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present invention provides The a process for preparing an olefin oxide by reacting an olefin having at least three carbon atoms with oxygen in the presence of a catalyst composition containing silver and an alkali metal promoter deposited on a carrier, which alkali metal promoter contains potassium in a quantity of at least 5 μmole/g, relative to the weight of the catalyst composition, and a selectivity and work rate enhancing amount of an alkali metal selected from the group consisting of lithium and sodium and mixtures thereof. The invention also relates to a method for making a 1,2diol or a 1,2-diol ether using the olefin oxide so prepared. Additionally, the invention relates to a catalyst composition comprising silver and a promoter deposited on a carrier.